



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	HOMOPOLAR MACHINE WITH IMPROVED BRUSH LIFETIME																																																																																																																																						
<p>Application Number: 10/684090 </p> <p>Confirmation Number: 3030</p> <p>First Named Applicant: ZBIGNIEW PIEC</p> <p>Attorney Docket Number:</p> <p>Search string: ( 3648088 or 3944865 or 3657580 or 4246507 or 4358699 or 4415635 or 4686405 or 4698540 or 4710665 or 5451825 or 5530309 or 5587618 or 5844345 or 6489700 or 6586858 ).pn.</p>																																																																																																																																							
<h3>US Patent Documents</h3> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3648088</td><td>1972-03-07</td><td>WILKIN ET AL.</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>2</td><td>3944865</td><td>1976-03-16</td><td>JEWITT</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>3</td><td>3657580</td><td>1972-04-18</td><td>DOYLE</td><td></td><td>310</td><td>52</td></tr><tr><td></td><td>4</td><td>4246507</td><td>1981-01-20</td><td>WELDON ET AL.</td><td></td><td>310</td><td>242</td></tr><tr><td></td><td>5</td><td>4358699</td><td>1982-11-09</td><td>WILSDORF</td><td></td><td>310</td><td>251</td></tr><tr><td></td><td>6</td><td>4415635</td><td>1983-11-15</td><td>WILSDORF ET AL.</td><td></td><td>428</td><td>611</td></tr><tr><td></td><td>7</td><td>4686405</td><td>1987-08-11</td><td>MCKEE</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>8</td><td>4698540</td><td>1987-10-06</td><td>MCKEE</td><td></td><td>310</td><td>239</td></tr><tr><td></td><td>9</td><td>4710665</td><td>1987-12-01</td><td>KILGORE ET AL.</td><td></td><td>310</td><td>219</td></tr><tr><td></td><td>10</td><td>5451825</td><td>1995-09-19</td><td>STROHM</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>11</td><td>5530309</td><td>1996-06-25</td><td>WELDON</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>12</td><td>5587618</td><td>1996-12-24</td><td>HATHAWAY</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>13</td><td>5844345</td><td>1998-12-01</td><td>HSU</td><td></td><td>310</td><td>178</td></tr><tr><td></td><td>14</td><td>6489700</td><td>2002-12-03</td><td>HEIBERGER ET AL.</td><td>B1</td><td>310</td><td>178</td></tr><tr><td></td><td>15</td><td>6586858</td><td>2003-07-01</td><td>FINKLE</td><td>B1</td><td>310</td><td>233</td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	3648088	1972-03-07	WILKIN ET AL.		310	178		2	3944865	1976-03-16	JEWITT		310	178		3	3657580	1972-04-18	DOYLE		310	52		4	4246507	1981-01-20	WELDON ET AL.		310	242		5	4358699	1982-11-09	WILSDORF		310	251		6	4415635	1983-11-15	WILSDORF ET AL.		428	611		7	4686405	1987-08-11	MCKEE		310	178		8	4698540	1987-10-06	MCKEE		310	239		9	4710665	1987-12-01	KILGORE ET AL.		310	219		10	5451825	1995-09-19	STROHM		310	178		11	5530309	1996-06-25	WELDON		310	178		12	5587618	1996-12-24	HATHAWAY		310	178		13	5844345	1998-12-01	HSU		310	178		14	6489700	2002-12-03	HEIBERGER ET AL.	B1	310	178		15	6586858	2003-07-01	FINKLE	B1	310	233
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass																																																																																																																																
	1	3648088	1972-03-07	WILKIN ET AL.		310	178																																																																																																																																
	2	3944865	1976-03-16	JEWITT		310	178																																																																																																																																
	3	3657580	1972-04-18	DOYLE		310	52																																																																																																																																
	4	4246507	1981-01-20	WELDON ET AL.		310	242																																																																																																																																
	5	4358699	1982-11-09	WILSDORF		310	251																																																																																																																																
	6	4415635	1983-11-15	WILSDORF ET AL.		428	611																																																																																																																																
	7	4686405	1987-08-11	MCKEE		310	178																																																																																																																																
	8	4698540	1987-10-06	MCKEE		310	239																																																																																																																																
	9	4710665	1987-12-01	KILGORE ET AL.		310	219																																																																																																																																
	10	5451825	1995-09-19	STROHM		310	178																																																																																																																																
	11	5530309	1996-06-25	WELDON		310	178																																																																																																																																
	12	5587618	1996-12-24	HATHAWAY		310	178																																																																																																																																
	13	5844345	1998-12-01	HSU		310	178																																																																																																																																
	14	6489700	2002-12-03	HEIBERGER ET AL.	B1	310	178																																																																																																																																
	15	6586858	2003-07-01	FINKLE	B1	310	233																																																																																																																																

Signature

Examiner Name	Date



# Electronic Filing System (EFS) Data

## Electronic Patent Application Submission

### USPTO Use Only

EFS ID: 54081

Application ID: 10684090



Title of Invention: HOMOPOLAR MACHINE WITH  
IMPROVED BRUSH LIFETIME

First Named Inventor: ZBIGNIEW PIEC

Domestic/Foreign Application: Domestic Application

Filing Date: 2003-10-10

Effective Receipt Date: 2004-01-21

Submission Type: Information Disclosure  
Statement

Filing Type:

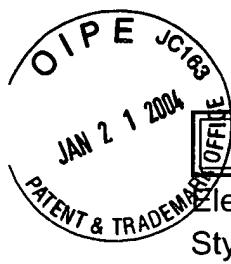
Confirmation number: 3030

Attorney Docket Number: NONE

Total Fees Authorized:

Digital Certificate Holder: cn=James J. Schumann,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US

Certificate Message Digest: bbe733fde16f974c54afa12387c310eb64ee2ca3



## TRANSMITTAL

Electronic Version v1.1  
Stylesheet Version v1.1.0

Title of Invention	HOMOPOLAR MACHINE WITH IMPROVED BRUSH LIFETIME	
Application Number:	10/684090 	
Date:	2003-10-10	
First Named Applicant:	ZBIGNIEW PIEC	
Confirmation Number:	3030	
Attorney Docket Number:		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
JAMES SCHUMANN Registered Number: 20856	JJS/s	Attorney
Documents being submitted us-ids	Files EIDS-usidst.xml us-ids.dtd us-ids.xsl	
Comments		